

Result No.	Score	Query Match	Length	DB	ID	Description
1	1274	100.0	239	23	AAE17518	Enhanced F64L-E222
2	1274	100.0	893	22	AAAG65781	Amino acid sequenc
3	1274	100.0	1132	22	AAAG65782	Amino acid sequenc
4	1266	99.1	239	23	AAE17517	Enhanced F64L jell
5	1263	99.1	239	21	AAE322882	Enhanced green flu
6	1263	99.1	239	21	AAV79584	EGFP signal domain
7	1263	99.1	239	21	AAV54349	Amino acid sequenc
8	1263	99.1	239	22	AAE31171	Amino acid sequenc
9	1263	99.1	239	22	AAE50804	Jellyfish GFP muta
10	1263	99.1	239	22	AAE85900	A. victoria green

PR 20-JUN-2000; 2000US-212681P.

predicted. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being predicted and is derived by analysis of the total score distribution.

PR 10-MAY-2001; 2001US-290170P.
 PA (BIOI-) BIOIMAGE AS.
 XX Bjorn SP, Pagliaro L, Thastrup O;
 XX WPI; 2002-098224/13.
 DR N-PSDB; AAD28163.
 XX Novel fluorescent protein in in vitro assay for measuring protein
 PT kinase activity or dephosphorylation activity, or for measuring protein
 PT redistribution, has a green fluorescent protein with F64L and E222G
 PT mutation
 XX Claim 9; Page 37; 4lpp; English.
 XX The invention relates to a fluorescent protein derived from green
 CC fluorescent protein (GFP) or its analogue. The GFP containing mutations
 CC at F64L and E222G has a bigger compared to other GFP's
 CC making it very suitable for high throughput screening due to better
 CC resolution. The fluorescent protein is useful in invitro assays for
 CC measuring protein kinase activity or dephosphorylation activity, or for
 CC measuring protein redistribution. The fluorescent protein is useful in
 CC studying cellular functions in living cells; as protein tags in
 CC transgenic animals, living and fixed cells; as protein tags in
 CC marker and genetic reporter. The fluorescent protein is also useful as
 CC a cell or organelle integrity marker, and as a marker for changes in cell
 CC morphology, as transfection marker, and as a marker for changes in cell
 CC combination with fluorescence activated cell sorting (FACS). The novel
 CC proteins can also be used as reporters to monitor live or dead biomass of
 CC organisms, such as fungi. The fluorescent protein is also useful as
 CC markers in transcriptional and translational fusions for performing
 CC transposon vector mutagenesis and as a reporter for bacterial detection.
 CC Transposons encoding the fluorescent protein are useful for screening
 CC promoters and for tagging plasmids and chromosomes. The fluorescent
 CC protein engineered into the genome of a phage is useful for designing
 CC diagnostic tool. The present sequence is a DNA encoding enhanced
 CC F64L-E222G jellyfish green fluorescent protein (GFP) mutant.
 XX Sequence 239 AA;
 SQ
 Query Match 100.0%; Score 1274; DB 23; Length 239;
 Best Local Similarity 100.0%; Pred. No. 2.6e-123;
 Matches 239; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGEDATYKLTFLKICTTGTGLPVPWPT 60
 DB 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGEDATYKLTFLKICTTGTGLPVPWPT 60
 QY 61 LVTTLISYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
 DB 61 LVTTLISYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120
 QY 121 VNRLEKIDFDEKDNILGHKLEYNSHNHYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
 DB 121 VNRLEKIDFDEKDNILGHKLEYNSHNHYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLGFTVTAAGITLGMDELYK 239
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLGFTVTAAGITLGMDELYK 239
 RESULT 2
 AAG65781
 ID AAG65781 standard; Protein; 893 AA.
 XX AAG65781;
 XX 07-JAN-2002 (first entry)
 DE Amino acid sequence of HSPDE4A1-E222G fusion protein.
 KW PDE4; central nervous system; antiinflammatory; cytostatic; nootropic;

KW autoimmune; ischemic; osteopathic; GFP; green fluorescent protein;
 KW fusion protein.
 XX Homo sapiens.
 OS Aequorea victoria.
 XX (WO200179526-A2.)
 PD 25-OCT-2001.
 XX 11-APR-2001; 2001WO-DK00264.
 PF 17-APR-2000; 2000DK-0000651.
 PR 29-MAY-2000; 2000DK-0000849.
 XX (BIOI-) BIOIMAGE AS.
 XX Terry BR, Scudder KM, Bjorn SP, Thastrup O, Almholt DC;
 PI Praestegaaard M;
 XX WPI; 2001-611727/70.
 DR N-PSDB; AAI66852.
 XX Determining if a compound is a dialocator of PDE4 for identifying
 PT compounds for treating CNS and inflammatory disease comprises
 PT identifying compounds which remove PDE4 spots -
 XX Example 1; Page 156-160; 160pp; English.

The invention relates to determining, if a compound, is a dialocator of
 PDE4. The method comprises testing if the compound removes PDE4 spots,
 which may optionally be induced by a Rolipram-like reference compound,
 and testing if it inhibits the catalytic activity of the PDE4, where the
 compound is a dialocator of PDE4, if it removes PDE spots and if it does
 not inhibit the catalytic activity of PDE4. The method is useful for
 identifying compounds useful for the treatment of diseases of the central
 nervous system such as depression and for the treatment of inflammatory
 disease such as joint inflammation, Crohn's disease, inflammatory bowel
 disease, respiratory diseases, chronic obstructive pulmonary disease
 (COPD), including asthma, chronic bronchitis, pulmonary emphysema,
 endotoxic shock, toxic shock syndrome, systemic lupus erythematosus,
 psoriasis, bone resorption diseases, reperfusion injury, cancer and HIV
 infection. The use of a reagent that can mimic or reverse the effect of
 the compound with affinity for the catalytic site on intracellular
 distribution of the PDE for the preparation of a medicament. The present
 sequence represents the amino acid sequence of a HSPDE4A1-E222G fusion
 protein.

SQ Sequence 893 AA;

Query Match 100.0%; Score 1274; DB 22; Length 893;
 Best Local Similarity 100.0%; Pred. No. 1.8e-122;
 Matches 239; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGEDATYKLTFLKICTTGTGLPVPWPT 60
 DB 655 MVSKEELFTGVVPILVELDGVNKGKFSVSGEGEDATYKLTFLKICTTGTGLPVPWPT 714
 QY 61 LVTTLISYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIPKDDGNYKTRAEVKFEGDTL 120
 DB 715 LVTTLISYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIPKDDGNYKTRAEVKFEGDTL 774
 QY 121 VNRLEKIDFDEKDNILGHKLEYNSHNHYIMADKQKNGIKVNFKIRHNIEDGSVQLA 180
 DB 775 VNRLEKIDFDEKDNILGHKLEYNSHNHYIMADKQKNGIKVNFKIRHNIEDGSVQLA 834
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLGFTVTAAGITLGMDELYK 239
 DB 835 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLGFTVTAAGITLGMDELYK 893

RESULT 3
 AAG65782

ID XX AAG65782 standard; Protein; 1132 AA.
AC XX AAG65782;
XX XX 07-JAN-2002 (first entry)
DT XX
DE XX Amino acid sequence of HSPDE4A4-E222G fusion protein.
DE XX PDE4; central nervous system: antiinflammatory; cytostatic; nootropic;
KW autoimmune; ischemic; osteopathic; GFP; green fluorescent protein;
KW fusion protein.
XX XX Homo sapiens.
OS Aequorea victoria.
XX XX WO200179526-A2.
XX XX 25-OCT-2001.
XX XX 11-APR-2001; 2001WO-DK00264.
XX XX 17-APR-2000; 2000DK-0000651.
PR 29-MAY-2000; 2000DK-0000849.
XX XX (BIOI-) BIOIMAGE AS.
XX XX Terry BR, Scudder KM, Bjorn SP, Thastrup O, Almholt DC;
PI Praestegaard M;
XX XX WPI; 2001-611727/70.
DR N-PSDB; AAI66853.
XX XX
XX XX Determining if a compound is a dislocator of PDE4 for identifying
PT compounds for treating CNS and inflammatory disease comprises
PT identifying compounds which remove PDE4 spots -
XX XX Example 1; Page 162-167; 160pp; English.
XX XX The invention relates to determining, if a compound, is a dislocator of
CC PDE4. The method comprises testing if the compound removes PDE4 spots,
CC which may optionally be induced by a Rolipram-like reference compound,
CC and testing if it inhibits the catalytic activity of the PDE4, where the
CC compound is a dislocator of PDE4, if it removes PDE spots and if it does
CC not inhibit the catalytic activity of PDE4. The method is useful for
CC identifying compounds useful for the treatment of diseases of the central
CC nervous system such as depression and for the treatment of inflammatory
CC disease such as joint inflammation, Crohn's disease, inflammatory bowel
CC disease, respiratory diseases, chronic obstructive pulmonary disease
CC (COPD), including asthma, chronic bronchitis, pulmonary emphysema,
CC endotoxic shock, toxic shock syndrome, systemic lupus erythematosus,
CC psoriasis, bone resorption diseases, reperfusion injury, cancer and HIV
CC infection. The use of a reagent that can mimic or reverse the effect of
CC the compound with affinity for the catalytic site on intracellular
CC distribution of the PDE for the preparation of a medicament. The present
CC sequence represents the amino acid sequence of a HSPDE4A4-E222G fusion
XX protein.
XX XX Sequence 1132 AA;
SQ
Query Match 100.0%; Score 1274; DB 22; Length 1132;
Best Local Similarity 100.0%; Pred. No. 2,6e-122;
Matches: 239; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MVSKEELFTGVPIVLELDGNGHKFVSVEGEGDGYKLTFLKFTCTGKLPVNPPT 60
DB 894 MVSKEELFTGVPIVLELDGNGHKFVSVEGEGDGYKLTFLKFTCTGKLPVNPPT 953
Qy 61 LVTTLSGVQCFSPYDPMKQDFFKSAHPGEGYQERTIFFKDDGNYKTRAEVKEGDTL 120
DB 954 LVTTLSGVQCFSPYDPMKQDFFKSAHPGEGYQERTIFFKDDGNYKTRAEVKEGDTL 1013
Qy 121 VNRTELKGDGDKNIGLGHKLEYNHNYIMADKQKNGIKVNFKIRHNIEDGSVOLA 180
|||||

Db 1014 VNRTELKGDGDKNIGLGHKLEYNHNYIMADKQKNGIKVNFKIRHNIEDGSVOLA 1073
Qy 181 DHYQONTPIGDGPVLLPDNHYLSQTQSALSKDPNEKRDMHVLGFTAAAGITLGMDELYK 239
|||||
Db 1074 DHYQONTPIGDGPVLLPDNHYLSQTQSALSKDPNEKRDMHVLGFTAAAGITLGMDELYK 1132
RESULT 4
AAE17517
ID AAE17517 standard; Protein; 239 AA.
XX XX
AC AAE17517;
XX XX
DT 22-APR-2002 (first entry)
XX XX
DE Enhanced F64L jellyfish green fluorescent protein mutant.
XX XX
KW Jellyfish; green fluorescent protein; GFP; protein redistribution;
KW cellular function; genetic reporter; mutant; Stoke's shift; muten.
XX XX Aequorea victoria.
OS Synthetic.
XX XX Key Location/Qualifiers
FH Misc-difference 65
FT /note= "Wild type Phe substituted with Leu; This
FT corresponds to position 64 in the wild type protein"
XX XX WO200198338-A2.
XX XX 27-DEC-2001.
XX XX
XX 18-JUN-2001; 2001WO-EP06848.
XX 19-JUN-2000; 2000DK-0000953.
PR 20-JUN-2000; 2000US-212681P.
PR 10-MAY-2001; 2001DK-0000739.
PR 10-MAY-2001; 2001US-290170P.
XX XX (BIOI-) BIOIMAGE AS.
XX XX Bjorn SP, Pagliaro L, Thastrup O;
PI WPI: 2002-098224/13.
DR N-PSDB; AAD28162.
XX XX Novel fluorescent protein in vitro assay for measuring protein
PT kinase activity or dephosphorylation activity, or for measuring protein
PT redistribution, has a green fluorescent protein with F64L and E222G
PT mutation -
XX XX Example 1; Page 35; 41pp; English.
XX XX The invention relates to a fluorescent protein derived from green
CC fluorescent protein (GFP) or its analogue. The GFP containing mutations
CC at F64L and E222G has a bigger compared to other GFP's
CC making it very suitable for high throughput screening due to better
CC resolution. The fluorescent protein is useful in vitro assays for
CC measuring protein kinase activity or dephosphorylation activity, or for
CC measuring protein redistribution. The fluorescent protein is useful in
CC studying cellular functions in living cells; as protein tags in
CC transgenic animals, living and fixed cells; organelle tags, secretion
CC marker and genetic reporter. The fluorescent protein is also useful as
CC a cell or organelle integrity marker, a marker for changes in cell
CC morphology, as transfection marker, and as a marker to be used in
CC combination with fluorescence activated cell sorting (FACS). The novel
CC proteins can also be used as reporters to monitor live or dead biomass of
CC organisms, such as fungi. The fluorescent protein is also useful as
CC markers in transcriptional and translational fusions for performing
CC transposon vector mutagenesis and as a reporter for bacterial detection.
CC Transposons encoding the fluorescent protein are useful for screening
CC promoters and for tagging plasmids and chromosomes. The fluorescent
CC protein engineered into the genome of a phase is useful for designing

CC diagnostic tool. The present sequence is enhanced F64L jellyfish green
 CC fluorescent protein (GFP) mutant.

XX SQ Sequence 239 AA;
 Query Match 99.48; Score 1266; DB 23; Length 239;
 Best Local Similarity 99.68; Pred. No. 1.8e-122;
 Matches 236; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MVSKEELFTGVVPIVVELDGVNGHGFVSVEGEGDATYKGLTKFKICTTGKLPVPMPT 60
 DB 1 MVSKEELFTGVVPIVVELDGVNGHGFVSVEGEGDATYKGLTKFKICTTGKLPVPMPT 60
 QY 61 LVTTLSYGVQCFSRYPDHMKQDFFKFSAMPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
 DB 61 LVTTLSYGVQCFSRYPDHMKQDFFKFSAMPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
 QY 121 VNRIELKIDFKEDGNILGHKLEYNHSHNYIMADKQKNGIKVNFIRHNIEDGSVQLA 180
 DB 121 VNRIELKIDFKEDGNILGHKLEYNHSHNYIMADKQKNGIKVNFIRHNIEDGSVQLA 180
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSCKDPNEKRDHMLLGFVTAAGITLGMDELYK 239
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSCKDPNEKRDHMLLGFVTAAGITLGMDELYK 239

RESULT 5

AB22882
 ID AAB22882 standard; Protein: 239 AA.

XX AAB22882;

DT 10-JAN-2001 (first entry)

DE Enhanced green fluorescent protein (EGFP), SEQ ID NO:46.

XX Bioreporter protein; fusion protein; recognition site;
 KW cellular targeting sequence; cellular localisation; fluorescent protein;
 KW protease activity detection; toxin detection; cellular stress detection;
 KW drug discovery; cell based screening.

XX Aequorea victoria.
 OS Synthetic.

XX WO2000050872-A2.

XX 31-AUG-2000.

XX 25-FEB-2000; 2000WO-US04794.

XX 26-FEB-1999; 99US-0122152.

PR 08-MAR-1999; 99US-0123399.

PR 12-JUL-1999; 99US-0352171.

XX (CELL-) CELLOMICS INC.

XX Giuliano KA, Kapur R;

DR WPI: 2000-594086/56.

DR N-PSDB; AAA93373.

PT Automated cell-based characterization of toxin by contacting cells
 PT containing luminescent reporter molecules with test substance and
 PT analyzing optically.

PS Example 11; Fig 29A; 336pp; English.

XX The invention relates to systems, methods and reagents for cell-based
 CC screening or detection of compounds which affect particular biological
 CC functions. The methods of the invention utilise fluorescent bioreporter
 CC molecules which, when acted on by a compound of interest, cause an
 CC alteration in the cellular distribution of at least the fluorescent
 CC moiety. In one embodiment, the biosensors comprise heat shock proteins

CC (HSPs) fused to a fluorescent protein (e.g., jellyfish green fluorescent
 CC protein (GFP), or derivatives thereof). Such biosensors are located in
 CC the cytoplasm, but on stress activation translocate to the nucleus. In
 CC another embodiment bioreporter proteins can be used to detect protease
 CC activity. Such protease bioreporter fusion proteins comprise one or more
 CC fluorescent proteins; a recognition signal which is cleaved by the
 CC protease; and at least one cellular localisation signal. The latter two
 CC components may be components of a single protein which is acted upon by
 CC the protease, or may be from heterologous sources. Due to the
 CC localisation signal, the bioreporter protein is localised to a
 CC particular region of the cell. Once acted on by the protease of interest,
 CC the fluorescent protein is cleaved from the localisation sequence, and
 CC is free to migrate to other locations within the cell. The presence of a
 CC second localisation signal attached to the fluorescent protein enables
 CC the fluorescent protein to be directed to a different cellular
 CC compartment after cleavage of the protease recognition sequence. The
 CC change in distribution of the fluorescent protein can be detected using
 CC imaging methods with a high degree of spatial resolution. The methods
 CC and biosensors of the invention can be used to investigate a wide range
 CC of cellular activities and to screen compounds which modulate these
 CC activities. Biosensors containing a recognition site for caspase, for
 CC example, may be used for the screening of compounds which modulate
 CC apoptosis, while biosensors containing other protease recognition sites
 CC may be used for the detection of proteolytic toxins (such as anthrax
 CC lethal factor). The method provides improved target validation and
 CC candidate compound optimisation by combining many cell screening formats
 CC with fluorescence-based molecular reagents and computer-based feature
 CC extraction, data analysis and automation, resulting in increased
 CC quantity and speed of data collection and faster evaluation of drug
 CC candidates. Sequences AAB22881-B22885 represent fluorescent proteins
 CC which may be used as components of biosensor fusion proteins of the
 CC invention.

XX SQ Sequence 239 AA;

Query Match 99.1%; Score 1263; DB 21; Length 239;
 Best Local Similarity 99.2%; Pred. No. 3.6e-122;
 Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MVSKEELFTGVVPIVVELDGVNGHGFVSVEGEGDATYKGLTKFKICTTGKLPVPMPT 60
 DB 1 MVSKEELFTGVVPIVVELDGVNGHGFVSVEGEGDATYKGLTKFKICTTGKLPVPMPT 60
 QY 61 LVTTLSYGVQCFSRYPDHMKQDFFKFSAMPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
 DB 61 LVTTLSYGVQCFSRYPDHMKQDFFKFSAMPEGYVOERTIFFKDDGNYKTRAEVKEGDTL 120
 QY 121 VNRIELKIDFKEDGNILGHKLEYNHSHNYIMADKQKNGIKVNFIRHNIEDGSVQLA 180
 DB 121 VNRIELKIDFKEDGNILGHKLEYNHSHNYIMADKQKNGIKVNFIRHNIEDGSVQLA 180
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSCKDPNEKRDHMLLGFVTAAGITLGMDELYK 239
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSCKDPNEKRDHMLLGFVTAAGITLGMDELYK 239

RESULT 6

AA79584
 ID AAY79584 standard; Peptide: 239 AA.

XX AAY79584;

DT 29-AUG-2000 (first entry)

XX EGFP signal domain.

XX Protease; biosensor; EGFP; signal peptide; cell screening;
 KW assay; analysis; drug discovery.

OS Unidentified.

XX WO200026408-A2.

XX

RESULT 8

AAB31171
 ID AAB31171 standard; Protein; 239 AA.
 AC AAB31171;
 XX 02-APR-2001 (first entry)
 DT
 XX Amino acid sequence of a green fluorescent protein (GFP).
 DE
 XX Growth rate; death rate; reporter gene; luminescent protein;
 KW fluorescent product; luciferase; green fluorescent protein; GFP.
 XX
 OS Aequorea victoria.
 XX
 PN WO200075367-A1.
 XX
 PD 14-DEC-2000.
 XX
 PF 07-JUN-2000; 2000WO-FI00507.
 XX
 PR 07-JUN-1999; 99FI-0001296.
 XX
 PA (LILI/) LILIUS E.
 PA (VIRT/) VIRT M.
 XX
 PI Lilius E, Virta M;
 XX
 XX WPI; 2001-061737/07.
 DR N-PSDB; AAC86954.
 XX

Assessing growth and death rates of a micro-organism in a desired environment, by introducing 2 reporter genes encoding luminescent and fluorescent products and detecting luminescent fluorescence -
 PT
 PT
 PT
 XX
 PS Disclosure; Page 27; 32pp; English.
 CC
 CC The specification describes a method for assessing the growth rate and death rate of a micro-organism within a predetermined time period in a desired environment. The method comprises introducing at least two reporter genes encoding luminescent and/or fluorescent products into the micro-organisms, incubating the micro-organism within the desired environment, and detecting luminescence and/or fluorescence after a predetermined time period. Use of two different markers within a micro-organism enables the differentiation between growth and death rates. The method is used to assess the growth rate and death rate of a micro-organism within a predetermined time period in a desired environment. The present sequence represents a green fluorescent protein (GFP), and is encoded by a plasmid which encodes luminescent and fluorescent proteins, and is used in the method of the invention.
 CC
 XX

SQ Sequence 239 AA;

Query Match 99.1%; Score 1263; DB 22; Length 239;
 Best Local Similarity 99.2%; Pred. No. 3.6e-122;
 Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MYSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDATYKLTLLKFTCTTGKLPVWPPT 60
 DB 1 MYSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDATYKLTLLKFTCTTGKLPVWPPT 60
 QY 61 LVTTLSYGVQCFSRYPDHMKQHDFFKFSAMPEGYVOERTIPFKDDGNYKTRAEVKEGDTL 120
 DB 61 LVTTLTYSYGVQCFSRYPDHMKQHDFFKFSAMPEGYVOERTIPFKDDGNYKTRAEVKEGDTL 120
 QY 121 VNRIELKIDGDKEDGNILGHKLEYNNSHNHYIMADKOKNGIKVNFIRHNIEDGSVOLA 180
 DB 121 VNRIELKIDGDKEDGNILGHKLEYNNSHNHYIMADKOKNGIKVNFIRHNIEDGSVOLA 180
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHNVLLGFVTAAGITLGMDELYK 239
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHNVLLGFVTAAGITLGMDELYK 239

RESULT 9

AAB50804
 ID AAB50804 standard; Protein; 239 AA.
 XX
 AC AAB50804;
 XX 14-MAR-2001 (first entry)
 DT
 XX Jellyfish GFP mutant EGFP.
 DE
 XX Aequorea victoria; jellyfish; fluorescent protein indicator;
 KW green fluorescent protein; GFP; linker moiety; sensor;
 KW calmodulin-binding domain; mutant; mutein.
 XX
 OS Aequorea victoria.
 XX
 PN WO200071565-A2.
 XX
 PD 30-NOV-2000.
 XX
 PF 17-MAY-2000; 2000WO-US13684.
 XX
 PR 21-MAY-1999; 99US-0316919.
 PR 21-MAY-1999; 99US-0316920.
 XX
 PA (REGC) UNIV CALIFORNIA.
 XX
 PI Tsien RY, Baird GA;
 XX
 DR WPI; 2001-032017/04.
 DR N-PSDB; AAC90488.
 XX

Novel fluorescent proteins comprising a sensor protein inserted into them, useful for measuring the response of a sensor biological, chemical, electrical or physiological parameter in vivo or in vitro -
 PT
 PT
 XX
 PS Disclosure; Page 24; 94pp; English.
 CC
 CC The present sequence is a fluorescent protein used in the construction of a fluorescent protein indicator. The indicator comprises a sensor polypeptide that is responsive to a chemical, biological, electrical or physiological parameter, and a fluorescence protein functional group. The sensor polypeptide is operatively inserted into the fluorescent moiety. The fluorescent indicator is useful for detecting the presence of a response inducing member in a sample. The method involves contacting the sample with the indicator and detecting a change in fluorescence, in which a change is indicative of the effect of the parameter on the sensor polypeptide. The novel fluorescent proteins are advantageous due to their reduced size as compared to the FRET (fluorescence resonance energy transfer)-based sensors.
 CC
 XX

SQ Sequence 239 AA;

Query Match 99.1%; Score 1263; DB 22; Length 239;
 Best Local Similarity 99.2%; Pred. No. 3.6e-122;
 Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 QY 1 MYSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDATYKLTLLKFTCTTGKLPVWPPT 60
 DB 1 MYSKEELFTGVVPIVLVDGVDVNGHKFSVSGEGDATYKLTLLKFTCTTGKLPVWPPT 60
 QY 61 LVTTLSYGVQCFSRYPDHMKQHDFFKFSAMPEGYVOERTIPFKDDGNYKTRAEVKEGDTL 120
 DB 61 LVTTLTYSYGVQCFSRYPDHMKQHDFFKFSAMPEGYVOERTIPFKDDGNYKTRAEVKEGDTL 120
 QY 121 VNRIELKIDGDKEDGNILGHKLEYNNSHNHYIMADKOKNGIKVNFIRHNIEDGSVOLA 180
 DB 121 VNRIELKIDGDKEDGNILGHKLEYNNSHNHYIMADKOKNGIKVNFIRHNIEDGSVOLA 180
 QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHNVLLGFVTAAGITLGMDELYK 239
 DB 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHNVLLGFVTAAGITLGMDELYK 239

DB 181 DHYQONTPIGDGPVLLPDNHYLSQSALSQKDPNEKRDHMLVLEFVTAAGITLGMDELYK 239

RESULT 10

AAAB85900
ID AAB85900 standard; Protein; 239 AA.

XX AC AAB85900;

XX DT 30-NOV-2001 (first entry)

XX DE A. victoria green fluorescent protein (GFP) and linker sequence.

XX KW Melanin concentrating hormone receptor; MCHR; chimeric; fusion;

XX KW fluorescent polypeptide; orexigenic; anabolic; food intake; GFP;

XX KW green fluorescent protein.

XX OS Synthetic.

XX OS Aequorea victoria.

XX PN WO200168706-A1.

XX PD 20-SEP-2001.

XX PF 14-MAR-2001; 2001WO-US08071.

XX PR 15-MAR-2000; 2000US-0189698.

XX PA (MERI) MERCK & CO INC.

XX PI Marsh DJ;

XX DR WPI: 2001-565791/63.

XX DR N-PSDB; AAH47304.

XX PT Fusion proteins comprising melanin concentrating hormone receptor
peptides and fluorescent proteins, useful for identifying appetite
stimulants -

XX PS Claim 2; Page 14; 71pp; English.

XX CC The invention provides melanin concentrating hormone (MCH) receptor
(MCHR) chimeric and fusion proteins. The MCHR chimeric proteins comprise
MCHR polypeptide regions from different species. The MCHR fusion protein
comprise MCHR polypeptide region and a fluorescent polypeptide region
joined directly, or via a linker, to the carboxy side of the MCHR
polypeptide region. The MCHR fusion proteins can be expressed by standard
recombinant methodology. MCH action promotes feeding (orexigenic) and up
regulation of MCH activity stimulates food intake. The present sequence
represents a A. victoria green fluorescent protein (GFP) and a linker
sequence.

XX SQ Sequence 239 AA;

Query Match 99.1%; Score 1263; DB 22; Length 239;
Best Local Similarity 99.2%; Pred. No. 3.6e-122;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVELDGVNGHFKFSVSGEGDGYGKLTFLKFICTTGKLPVWPPT 60

DB 1 MVSKEELFTGVVPIVLVELDGVNGHFKFSVSGEGDGYGKLTFLKFICTTGKLPVWPPT 60

QY 61 LVTTLSYGVQCFSRYPDMKHQDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

DB 61 LVTTLSYGVQCFSRYPDMKHQDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

QY 121 VNRIELKGIDFKEDGNILGHKLEYNHNHYVIMADKQKNGIKVNFIRHNIEDGSVQLA 180

DB 121 VNRIELKGIDFKEDGNILGHKLEYNHNHYVIMADKQKNGIKVNFIRHNIEDGSVQLA 180

QY 181 DHYQONTPIGDGPVLLPDNHYLSQSALSQKDPNEKRDHMLVLEFVTAAGITLGMDELYK 239

DB 181 DHYQONTPIGDGPVLLPDNHYLSQSALSQKDPNEKRDHMLVLEFVTAAGITLGMDELYK 239

RESULT 11

AAG66198
ID AAG66198 standard; Protein; 239 AA.

XX AC AAG66198;

XX DT 17-JUN-2002 (first entry)

XX DE A. victoria green fluorescent protein (EGFP).

XX KW Cyan-green fluorescent protein; fluorescence; recombinant; GFP;

XX KW green fluorescent protein; EGFP.

XX OS Aequorea victoria.

XX PN JP2002045189-A.

XX PD 12-FEB-2002.

XX PF 04-AUG-2000; 2000JP-0237165.

XX PR 04-AUG-2000; 2000JP-0237165.

XX PA (RIKA) RIKAGAKU KENKYUSHO.

XX WPI: 2002-299190/34.

XX DR N-PSDB; ABL40628.

XX CC A gene encoding cyan-green fluorescent protein -

XX PT Examples; Page 14; 20pp; Japanese.

XX CC The invention relates to a gene encoding proteins having cyan-green
fluorescence characteristic and having a function of showing stable
fluorescence characteristic in acid region. A method for the preparation
of a cyan-green fluorescent protein is provided which involves a
transformant transformed by a recombinant vector comprising the gene,
where the transformant is cultured and the protein is collected from the
culture. The present sequence represents the A. victoria green
fluorescent protein (EGFP).

XX SQ Sequence 239 AA;

Query Match 99.1%; Score 1263; DB 23; Length 239;
Best Local Similarity 99.2%; Pred. No. 3.6e-122;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MVSKEELFTGVVPIVLVELDGVNGHFKFSVSGEGDGYGKLTFLKFICTTGKLPVWPPT 60

DB 1 MVSKEELFTGVVPIVLVELDGVNGHFKFSVSGEGDGYGKLTFLKFICTTGKLPVWPPT 60

QY 61 LVTTLSYGVQCFSRYPDMKHQDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

DB 61 LVTTLSYGVQCFSRYPDMKHQDFFKSAPEGYVQERTIFFKDDGNYKTRAEVKFEGDTL 120

QY 121 VNRIELKGIDFKEDGNILGHKLEYNHNHYVIMADKQKNGIKVNFIRHNIEDGSVQLA 180

DB 121 VNRIELKGIDFKEDGNILGHKLEYNHNHYVIMADKQKNGIKVNFIRHNIEDGSVQLA 180

QY 181 DHYQONTPIGDGPVLLPDNHYLSQSALSQKDPNEKRDHMLVLEFVTAAGITLGMDELYK 239

DB 181 DHYQONTPIGDGPVLLPDNHYLSQSALSQKDPNEKRDHMLVLEFVTAAGITLGMDELYK 239

RESULT 12

AAE14599
ID AAE14599 standard; Protein; 239 AA.

XX AC AAE14599;

XX DT 31-MAY-2002 (first entry)

QY	61	LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEFGDTL	120
Db	61	LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEFGDTL	120
QY	121	VNRIELKGIDFKEDGNILGHKLEYNNSHNVIYIMADKQNGIKVNFKIRHNIEDGVSQOLA	180
Db	121	VNRIELKGIDFKEDGNILGHKLEYNNSHNVIYIMADKQNGIKVNFKIRHNIEDGVSQOLA	180
QY	181	DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK	239
Db	181	DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLVLLGFVTAAGITLGMDELYK	239
RESULT 14			
AAU99804			
ID	AAU99804	standard; Protein; 259 AA.	
XX			
AC	AAU99804;		
XX			
DT	07-OCT-2002	(first entry)	
DE		Blomembrane permeable compound associated EGFP-Histidine tag protein.	
XX			
KW		Blomembrane permeating signal sequence; nucleus-transfer signal;	
KW		postsynapse transfer signal sequence; biomembrane permeable compound;	
KW		PCR; primer; ss; enhanced green fluorescent protein; EGFP; His tag;	
KW		histidine tag.	
XX			
OS		Synthetic.	
XX			
PN	JP2002153288-A.		
XX			
PD	28-MAY-2002.		
XX			
PF			
XX			
PR	24-NOV-2000; 2000JP-0358442.		
XX			
XX	24-NOV-2000; 2000JP-0358442.		
PA	(MATSU) MATSUI H.		
PA	(MATSU) MATSUSHITA M.		
XX			
XX	WPI; 2002-552745/59.		
XX			
XX		Compound for introducing a substance to a specific site in a cell, a	
PT		PAK inhibitor, a transcription inhibitor, a vector	
XX			
PS	Example 1; Page 16; 25pp; Japanese.		
XX			
CC		The invention describes a compound containing a biomembrane permeating	
CC		signal sequence and a selectively introduced signal sequence to a	
CC		specific site in a cell and which can be localised in the specific site	
CC		in the cell. The biomembrane permeating signal sequence consists of	
CC		9-13 arginine residues and the selectively introduced signal sequence	
CC		to a specific site in a cell is a nucleus-transfer or postsynapse	
CC		transfer signal sequence. The compound is used for localising a peptide	
CC		acting as a drug in a cell nucleus. This is the amino acid sequence of	
CC		an enhanced green fluorescent protein (EGFP) protein fused to a	
CC		histidine tag used in the development of a biomembrane permeable	
CC		compound.	
XX			
SQ	Sequence	259 AA;	
Query Match		99.1%; Score 1263; DB 23; Length 259;	
Best Local Similarity		99.2%; Pred. No. 4.1e-122;	
Matches	237; Conservative	1; Mismatches 1; Indels 0; Gaps 0;	
QY	1	MVSKGEELFTGVVPILVELDGVNKGHFVSQSGEGDATYGLTKLTKFICTTCKLPVPWPT	60
Db	1	MVSKGEELFTGVVPILVELDGVNKGHFVSQSGEGDATYGLTKLTKFICTTCKLPVPWPT	60
QY	61	LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKEFGDTL	120

Db 61 LVTTLTYCVCFSRYPDHMKOHDFKSGAMPEGYVOERTIFFPKDDGNKYKTRAEVKEGDTL 120
QY 121 VNRIELKGIDFKEDGNILGHKLEYNYNHSHNYYIMADKOKNGIKVNFKIRHNIEDGSVOLA 180
Db 121 VNRIELKGIDFKEDGNILGHKLEYNYNHSHNYYIMADKOKNGIKVNFKIRHNIEDGSVOLA 180
QY 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLGFVTAAGITLGMDELYK 239
Db 181 DHYQONTPIGDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLGFVTAAGITLGMDELYK 239

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Job time : 71 secs